

For Low Pressure

# Mold Cupla

## High flow type

High flow type mold coolant port coupling

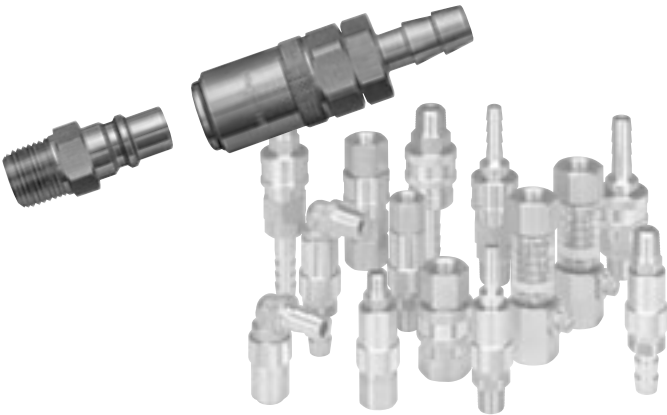
Working pressure: **1.0** (1.0MPa (10kgf/cm<sup>2</sup>))

Valve structure: One-way shut-off, Straight through

Applicable fluids: Water, Heated oil

## Flow rate has doubled to contribute to productivity.

- High flow type K3 and K4 series are added to mold Cupla series for mold coolant and heated oil port coupling.
- Almost double flow rate compared with our standard K01, K02, and K03 series contributing to productivity.
- Space saving design for molds with closely spaced coolant ports.
- Long sleeve socket facilitates connection/disconnection with plug embedded in mold.
- Enables quick mold coolant hose connection/disconnection.



### Plug Embedment Dimensions (mm)

Model	D*	C*	L	Remarks
K3-02PM	24 or more	0~3	31	* Socket interference prevents connection/disconnection when C exceeds 3mm.
K3-03PM	24 or more	0~3	31	* Size D should be bigger than the outer diameter of the socket wrench to be used. (See JISB4636-1, JISB4636-2)
K4-04PM	32 or more	0~3	39	

### Models and Dimensions

Model	Application	Mass (g)	Dimensions (mm)					
			Lp	C	Hp(WAF)	øE	øT	øBp
K3-02PM	Rc 1/4	16	36	17.5	Hex.14	15.5	R 1/4	9
K3-03PM	Rc 3/8	25	36	17.5	Hex.17	18.5	R 3/8	9.5
K4-04PM	Rc 1/2	50	46	21.5	Hex.22	24	R 1/2	13

Notes: Also available without socket valve, identified by product code TS (e.g. K03SH without valve is K03TSH)  
Also available are Cuplas with sleeve stopper. (Made-to-order item)

### Specifications

Body material	Brass			
Size	1/4" • 3/8" • 1/2"			
Working pressure MPa (kgf/cm <sup>2</sup> )	1.0 (10)			
Pressure resistance MPa (kgf/cm <sup>2</sup> )	1.5 (15)			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Available on request

### Max. Tightening Torque N·m (kgf·cm)

Size	1/4"	3/8"	1/2"
Torque	9 (92)	11 (112)	20 (204)

### Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.



### Interchangeability

In K3 series sockets and plugs can be connected regardless of end configurations and sizes. In K4 series sockets and plugs can be connected regardless of end configurations and sizes. K3 series and K4 series can neither be connected with other mold Cuplas series, nor with K3 series and K4 series each other.

### Min. Cross-Sectional Area (mm<sup>2</sup>)

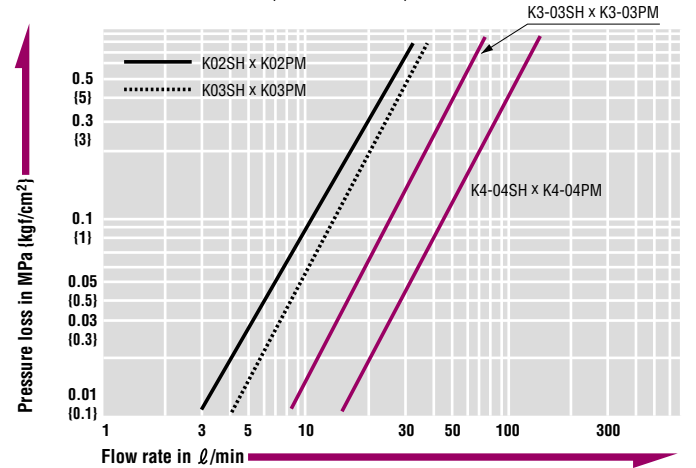
Plug \ Socket	K3-03SH	K3-04SH	K4-04SH
K3-02PM	38	63.5	—
K3-03PM	38	70.5	—
K4-04PM	—	—	78.5

### Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

### Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : Water • Temperature : Room temperature



WAF : WAF stands for width across flat.

### Socket SH type (Hose barb / High flow type)

Model	Application (Hose)	Mass (g)	Dimensions (mm)						
			Ls	øD	ød	N	A	øT	øBs
K3-03SH	3/8"	100	(65)	24	22.5	19	25.5	12	7
K3-04SH	1/2"	102	(67)	24	22.5	19	25.5	15	10
K4-04SH	1/2"	226	(82)	32	30	26.5	34	15	10

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.